

## **ABSTRACT OF THE DISCLOSURE**

Analytes are detected and/or quantified in electrolytic solutions using Surface Enhanced Raman Scattering spectroscopy (SERS) by adsorbing the analyte on the surface of an active metal electrode placed into an electrolytic solution being analyzed and which provide periodic regeneration or modulation of surface concentration of SERS-active sites. As this occurs, the ambiguity of the measured values of the analyte signal, which is caused by instability of the surface activity of the sensor, is eliminated by optically normalizing to the total SERS signal determined by active metal adatoms.

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